

### REMARKS

Claims 1 to 30 are pending in this application, of which claims 1, 11 and 21 are the independent claims. Favorable reconsideration and further examination are respectfully requested.

Initially, claims 4, 7, 14, 17, 24 and 27 were rejected under 35 U.S.C. § 112, second paragraph, because the phrase "the camera" had insufficient antecedent basis. Applicants have amended "the camera" in claims 4, 14 and 24 to "a camera". Accordingly, Applicant respectfully requests withdrawal of this rejection.

Turning to the art rejections, claims 1 to 30 were rejected as being anticipated by Zwern (U.S. Patent No. 6,084,556). As shown above, Applicant has amended the claims to define the invention more clearly. In view of these amendments, withdrawal of the art rejection is respectfully requested.

Claim 1, as amended, is directed to a method of rendering a virtual three-dimensional (3D) scene. The method includes tracking a positional change of a head of a user with respect to a display, transforming the virtual 3D scene in accordance with the positional change of the head, and rendering on the display a transformed virtual 3D scene. The virtual 3D scene is rendered in a perspective projection defined by a frustum bounded by a near plane and by a far plane located opposite the near plane.

The applied art is not understood to disclose or suggest the foregoing features of claim 1. In particular, Zwern does not disclose or suggest that "the virtual 3D scene is rendered in a

perspective projection defined by a frustum bounded by a near plane and by a far plane located opposite the near plane.”

Zwern describes a virtual imaging system that utilizes a head-mounted display 26 to generate a virtual display. The head-mounted display 26 includes small LCDs that are located in close proximity to the wearer's eyes to generate the virtual display. The virtual display generated by the head-mounted display is not three-dimensional, however. Nor is it rendered in a perspective projection defined by a frustum bounded by a near plane and by a far plane located opposite the near plane, as in claim 1. Accordingly, claim 1 is believed to be patentable over Zwen.

Claims 11 and 21 roughly correspond to claim 1. Accordingly, claims 11 and 21 are believed to be allowable for at least the same reasons noted above with respect to claim 1.

In view of the foregoing amendments and remarks, Applicant submits that the entire application is now in condition for allowance. Such action is respectfully requested at the Examiner's earliest convenience.

All correspondence should be directed to the below address. Applicant's attorney can be reached by telephone at the number shown below.

Applicant : John J. Light  
Serial No. : 10/003,209  
Filed : October 30, 2001  
Page : 12 of 12

Attorney's Docket No.: 10559-538001  
Intel Docket No.: P12444

No fee is believed to be due for this Response; however, if any fees are due please apply such fees to Deposit Account No. 06-1050 referencing Attorney Docket 10559-538001.

Respectfully submitted,

Date:

January 30, 2004



Paul A. Pysher  
Reg. No. 40,780

ATTORNEYS FOR INTEL  
Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906